

1. (Amended) An underground facility having a dehumidification system comprising:

an outer wall;

an interior wall spaced from said outer wall of the underground facility, said interior wall defining an interior space of said facility;

a buffering space formed between said outer wall and the interior wall, wherein said interior wall divides said buffering space from said interior space of the underground facility and;

A1 ventilation means which air circulates between the interior space and the buffering space.

2. (Amended) The underground facility according to the claim 1, wherein said interior wall comprises a heat insulating material.

3. (Amended) The underground facility according to the claim 1, wherein the surface of said interior wall facing said buffering space comprises a waterproof material.

4. (Amended) The underground facility according to the claim 1, wherein the ventilation means comprises:

a lower ventilation window at a lower position on said interior wall;

an upper ventilation window at an upper position on said interior wall and;

a ventilation fan exhausting inflow air from said interior space into the buffering space through the lower ventilation window and back to said interior space through the upper ventilation window.

A1 5. (Amended) The underground facility according to the claim 4 further comprising heating means wherein air exhausted from the buffering space is heated before flowing into said interior space of the underground facility.

6. (Amended) The underground facility according to the claim 1 further comprising a condensation inductor in the buffering space.

7. (Amended) The underground facility according to the claim 6, wherein the condensation inductor is formed of a material selected from the group consisting of steel, stainless steel, aluminum, copper and mixtures thereof.

8. (Amended) The underground facility according to the claim 6, wherein the condensation inductor is comprised of a waved sheet, chain, or honey comb type panel.

9. (Amended) The underground facility according to the claim 6, wherein the condensation inductor includes a concrete surface having a ridge and furrow shape.

A 10. (Amended) The underground facility according to the claim 1 further comprising heating means connected to the ventilation means wherein air dried in the buffer space is heated to the temperature of the interior space of the underground facility.

11. (Amended) The underground facility according to the claim 10 further comprising a thermal collector and heat transfer means transferring the heat collected from said thermal collector to said heating means.

12. (Amended) A method for dehumidification of air in an interior space of an underground facility comprising the steps of:

providing a buffering space between an outer wall of said underground facility and an interior wall spaced from said outer wall, said interior wall defining an interior space of said underground facility;

causing air to flow from said interior space into the buffer space having the lower temperature than said interior space so that moisture in said air is eliminated by condensation;

AI exhausting said air in the buffer space back into said interior space of the underground facility upon moisture being eliminated therefrom.

13. (Amended) The method for dehumidification according to the claim 12, further comprising heating said air once moisture is eliminated therefrom prior to being exhausted into said interior space.

REMARKS

Claims 1-13 remain pending after amendment.

Claim Amendments

By this amendment, various editorial amendments are made in claims 1-13. No new matter is added by this amendment.